DETRILS FOR DRAWING FRAMES.

JOHN HETHERINGTON & SONS, Limited, MANCHESTER.

SPECIAL COLL TS1583 .D23

1907



DETAILS FOR DRAWING FRAMES.



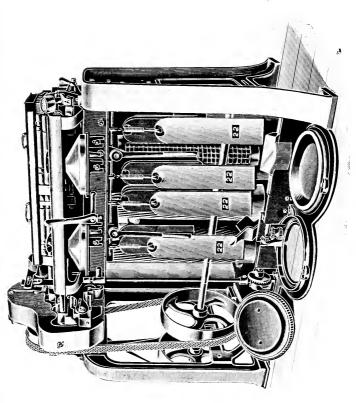
JOHN HETHERINGTON & SONS.

Makers of all kinds of Cotton Opening, Scutching, Carding, Preparing, Spinning and Doubling Machinery, also Engineers' Tools. Mill Scaring, Thoists, etc.

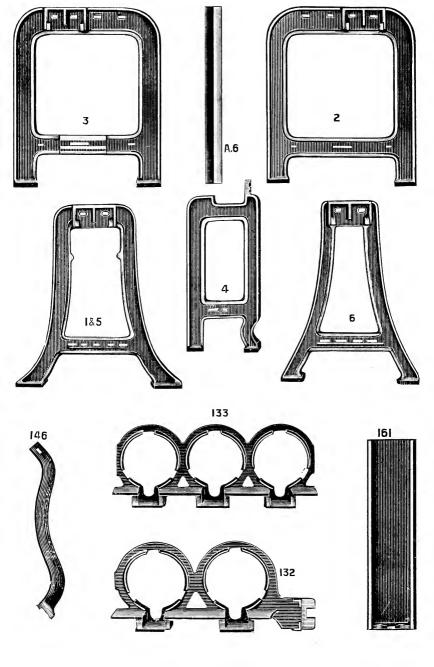
POLLARD STREET, ANCOATS, MANCHESTER.

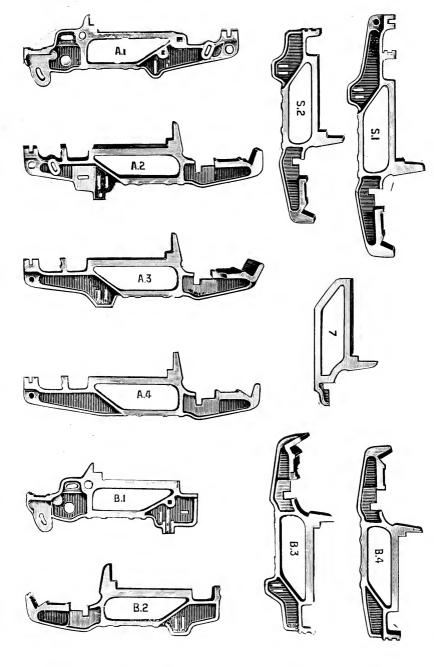
Telephone No. 6661. Telegraphic Address: "HETH," MANCHESTER

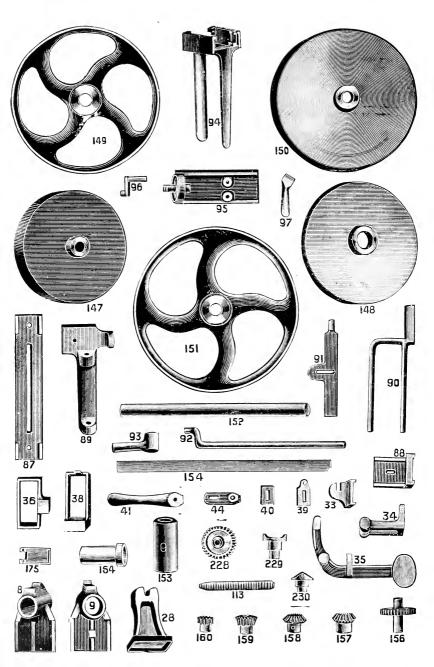


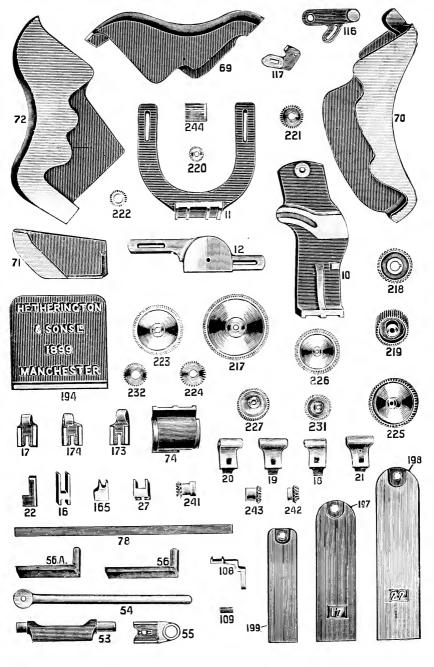


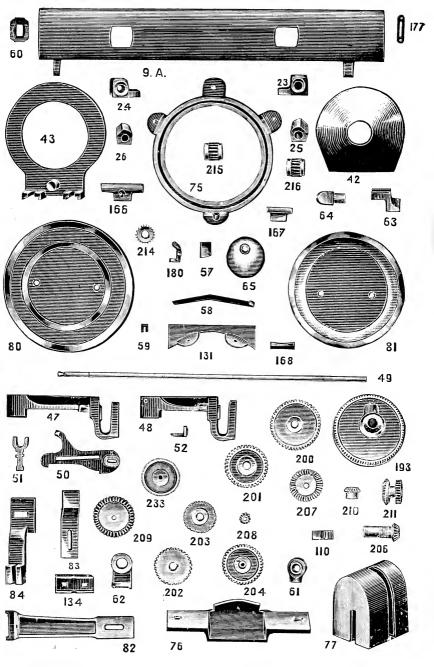
DRAWING FRAME.

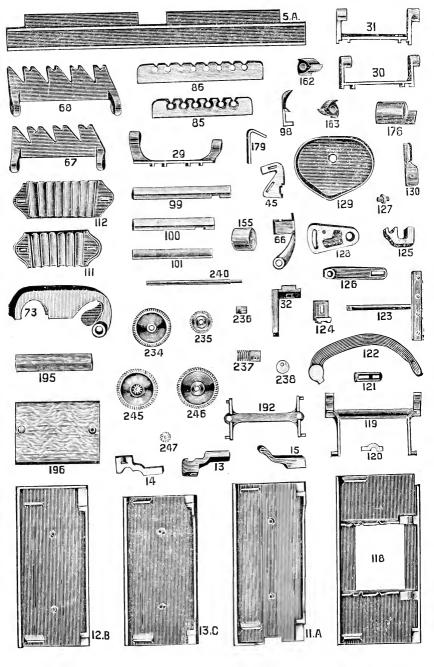


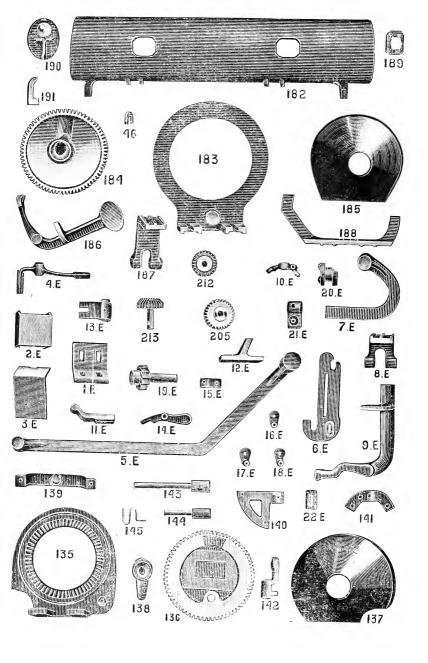
















DRAWING FRAMES.

DETAILS OF DRAWING FRAMES.

NOTE.—In ordering Sundries for Drawing Frames kindly state the Number of Deliveries and the Gauge.

Ι.	Frame End
IA.	Gearing End Stand with Single Preventor
$_{\rm LB}$	" without "
IS.	Special Stand with Single Preventor
2.	Broad Spring Piece R.H.
2A.	Second Large Stand with Single Preventor
2B.	" " without "
2S.	Special Stand without Single Preventor
3.	Broad Spring Piece L.H.
3A.	Wing Stand with Single Preventor
3B.	" " without "
. 1	Small Spring Piece
4A.	Off End Stand with Single Preventor
4B.	" " without "
5.	Narrow Frame End
5A.	Traverse Rail
6.	Narrow Spring Piece
6A.	Back Plate
7.	Small Stand Double Pedestal
9.	Single " Callandors
9A.	Callender Cover for 2in Callenders
IO.	Upright Bracket
II.	Horn ,,
HA.	Top Clearer, Gearing End

Horn Box 12. 12B. Top Clearer, Off End Plain Block for Curl 13. 13C. Top Clearer, Middle Four Toed Block for Curl 1.4. Curl 15. Stand Slide 16. Small Bracket for Back of Slide 17. 18. No. 2 Stand Cap No. 3 19. No. 4 20. Cap for Special Stand 21. Small Stand Cap 22. Callender Roller Step, Gearing End 23. Off End 24. Front Callender Roller Step, Gearing End 25. Off End 26. Small Cast Iron Slide for Gearing End Stand 27. Pillar for End of Roller 28. Cross Shaft Bracket 20. Traverse Motion Bracket 30. Narrow Traverse Motion Bracket 31. Traverse Motion Fork 32. Stop Rod Bracket 33. Clutch Weight Bracket 34. Light Clutch Weight 35. Strap Fork 36. 37. Alternate Strap Fork 38. Small Bracket for Spring 39. Small Stop Bracket for Rods 40. Handles for Setting on Rods 41. Bonnet 42. Table 43. Stud Bracket for Stop Rod 44. Knife Bracket 45. Tumbler Stop 46. Long Measuring Motion

47.

48.	Short Measuring Motion
49.	Upright Shaft
50.	Measuring Motion Plate
51.	" Nut
52.	" Nib
53.	Weight Relieving Motion, Eccentric
54·	" " " Eccentric Handle
55	" " " Bracket
55. 56.	Stop Bracket, End
56A.	Weight Relieving Motion, Stop Bracket, Middle
	Front Tumbler Lever Bracket
57·	T
58.	Weight
59. 60.	Callender Cover Clearer
61.	Swivel for Can Bottom Bracket
62.	Can Bottom Bracket
63.	Swivel Bracket
	Swivel Swivel
64. 65.	Front Tumbler
66.	Snuff Box
67.	Sliver Plate, 6 Ends
60.	" " 8 " Short Tail Guard
	Long
70.	Long ,, ,, Guard for 38 T Carrier Wheel
71.	Large Guard
72.	Single Preventor Guard
73·	Guard for 38/16 Wheel
74·	Can Ring
75. 76.	Middle Cover for Can Bottom
	Gearing End Cover for Can Bottom
77. 78.	Rod for Weight Relieving Motion
79.	Rod for Weight Reneving Motion
80.	9in. Can Wheel
81.	10in
82.	Long Bracket for Fastening Down Can Bottom,
02.	Gearing End
83.	Slide for ditto
·/J•	Sinds for dieto

84.	Bracket for Fastening Down Can Bottom, Off End					
85.	Sliver Plate without Preventor, 6 Ends					
86.	,, ,, ,, 8 ,,					
87.	Strap Fork Arrangement, Rail					
88.	" " " Angle Bracket					
89.	" " " Upright					
90.	" " Strap Fork					
91.	" " Eccentric Plate					
92.	" " Eccentric					
93.	" " Handle					
94.						
95.						
96.	" " " Eccentric					
97.	""""Handle					
98.	Back Tumbler					
99.	Knife Blade for Back Tumblers, 8 Ends					
IOO.	, , , , , , , , , , , , , , , , , , , ,					
101.	Strip for Back Tumblers					
102.	Cast Iron Weight Hook (Weight Relieving Motion					
103.	Cast Iron Weight for Spring (Weight Relieving Motion)					
104.	Weight Wire and Oblong Nut (Weight Relieving Motion)					
105.	Long Weight Wire Hook					
106.	" " " for Springs					
107.	Special Wire Hook for Loose Bushes					
108.	Indicator Bracket					
109.	" Worm					
IIO.	Cap for Can Bottom					
HII.	Brass Guide, 6 Ends					
112.						
113.	Stop Rod Spring					
114.	Spring for Front Roller Weighting					
115.	S Hook for Front Roller Weighting					
116.	80 T Carrier Bracket with Single Preventor					
117.	So T ,, without ,,					
118.	Ermen's Revolving Clearer, Top Clearer					
119.	" " " Swing					

120.	Ermen's Revolving Clearer, Cap					
121.	" " " Swing Tightening Bracket					
122.	Sickle					
123.	Coraner					
124.	Angle Broket for Curl					
125.	Cuel					
126.	Recontric Lover					
127.	Facentric					
128.	66 T and I T Coming					
120.	Bracket					
129.	Ermen's Revolving Clearer, Guard					
130	" " " Guard Bracket					
131.	Malleable Iron Bridge for Bonnet					
132.	Can Bottom or Floor Plate (Gearing End)					
133.	" " " (Off End)					
134.	Can Bottom Coupling					
135.	Merino Coiler, Table					
136.	" " Press or Coiler Wheel					
137.	" " Bonnet					
138.	" " Trunk					
139.	" Trunk Bracket					
140.	" " Callender Roller Bracket					
141.	" " " " "					
142.	n n n					
143.	" " Long Callender Roller					
I 44.	" " Short " "					
145.	" " Callender Roller Spring					
146.	Beam Stay					
I 47.	Fast Pulley, 12in. x 2in. on Roller					
148.	Loose " 12in. x 2in. "					
149.	Fast " Outside Driving					
150.	Loose " "					
151.	Inside Driving Pulley, 18in. x 4in.					
152.	1½in. Driving Shaft					
153.	Coupling for Driving Shaft					
154.	14in, x 8in. Setting on Rod					
155.	Snuff Box Roller for Single Preventor					

156.	Merino Coiler, 21	гт Peg Wheel
157.		T Bevel for Peg Wheel, 1in. Hole
158.		T " $\frac{3}{4}$ in. Hole
159.		T , for Callender Roller
160.		T Spur Wheel
161.	Roller Beam	ı
162.	Large Spider	
163.	Small ,,	
164.	Pedestal Bush	
165.		lide Gearing End Stand)
166.	Callender Roller	
167.	11 21	
168.		Roller Step Brass)
169.		for Gearing End Stand
170.	$\frac{7}{8}$ in. "	Roller Slides
171.	Brass Regulating	g Slide for Horn Box
172F.	Round Backed C	ast Iron Weight Hook
172M.	. Flat	,, ,, ,,
173.	One Sided Brack	xed for Back of Stand for Narrow
, 0	Gauges)	
174.	One Sided Brack	ket for Back of Stand Gearing End)
175.	Pedestal Cap	
176.	Guard for Trave	rse Motion
177.	Callender Cover	
178.	Bob Weight for	Wood V. Clearer
179.	Angle Iron for S	Sliver Plate
180.	Front Tumbler	
181.	Steel Bit for Gea	aring End Stand
182.	3in. Callenders—	
183.		Table
184.	**	Press or Coiler Wheel
185.	**	Bonnet
186.	***	Clutch Weight
187.	**	" " Bracket
188.		Cross Shaft Bracket
189.		Callender Cover Clearer
190.		Front Tumbler
191.	11	Front Tumbler Tail

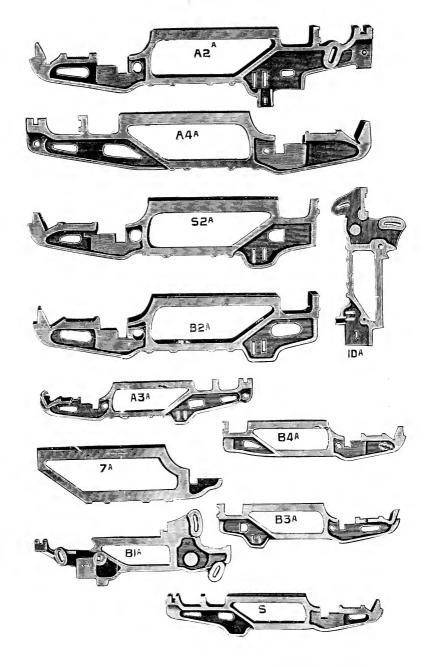
192. 193. 194. 195. 196.	Swing for Frictional Revolving Clearer Press or Coiler Wheel for 2in. Callender Frame End Name Plate Wood V. Clearer Wood Top Clearer				
197.	17lb. Roller Weight for 2nd, 3rd and 4th Line				
198.	22lb. " " for Front Line				
199.	10lb. " for Metallic Rollers				
200.	48T Callender Roller Wheel				
201.	Bossed Carrier for Callender Rollers				
202.	Front Roller Wheel ", "				
203.	30 T Callender Roller Wheel				
204.	38 T Bossed Carrier				
205.	28 T Coiler Wheel				
206.	16 T Bevel and Worm				
207. 208.	38 T Bevel for Top of Upright 11 T , Bottom ,,				
200.					
210.	20 T				
211.	25 T Bevel and 24 T Spur Compound for Can Bottom				
211.	Stud				
212.	30 T Bevel for Coiler Shaft				
213.	30 T Peg Wheel				
214.	16 т Callender Roller Wheel				
215.	16 т Double Bossed Callender Roller Wheel				
	$(1\frac{1}{4}$ in. Bore)				
216.	16 TDouble Bossed Callender Roller Wheel (1 in. Bore				
217.	100 T Crown Wheel				
218.	Change Wheel				
219.	50 T Broad Carrier				
220.	20 T Draft Wheel for 2nd and 3rd Rollers				
221.	37 T Back Roller Wheel (18in. Bore)				
222.	25 T , $(1\frac{1}{8}\text{in.},)$				
223.	80 T , (Iin. ,)				
224.	39 T , , (1in. ,)				
225.	80 T Bossed Carrier				
226.	70 T ,, ,,				
227.	49 T " "				

228.	49 T Clutch Wh	ieel				
229.	Long Clutch Box for Single Preventor					
230.	Short Clutch Be	ΧC				
231.	44 T Single Pre-					
232.	37 T Draft Whe	el for Sin	gle Preventor I	Roller		
233.	100 т Measurin	g Motion	Wheel			
234.	60 т Traverse	**	,,			
235.	36 т "	**	**			
236.	IOT "	11	***			
237.	Traverse Motion	n Worm				
238.	,, ,,	Eccentr	ric			
239.						
240.	Traverse Motio	n Shaft				
241.	14 т Bevel, Lor	ig Boss fo	r Cross Shaft	71. 0		
242.	14 T ,, Sho	rt "	Back Spider S	Shaft		
243.	14 T Bevel, for		der Shaft			
244.	25 T Front Roll	er Wheel				
245.	66 T and 14 T C	ompound	Wheel for Ern	nen's Clearer		
246.	66 т Draft Whe	eel for Eri	nen's Clearer			
247.	14 T ,,	**	**			

ELECTRIC STOP MOTION.

ΙE.	Angle Bracket for Magnet Box
2E.	Magnet Box
3E.	" " Lid
4E.	" Lever
5E.	Connecting Bracket
ĞЕ.	Measuring Motion Plate
7E.	Connecting Bracket
ŠЕ.	Clutch Weight Bracket
QЕ.	" Lever
IOE.	Catch for Star Wheel
HE.	Curl
12E.	Bracket for Steel Plates
13E.	" Back of Stand
14E.	Lever for Front Stop Motion

15E. 16E.	Bracket for Magnet Box Short Bracket for Front Stop Motion Lever
17E.	Long " " " " "
	Cranked " " " " "
	Star Wheel
	Clutch for Star Wheel
	Bracket for Front Stop Motion Rod
22E.	Setting on Rod Bracket
	STUDS.
IS.	Carrier Stud for Calender Rollers
2S.	Large Guard Stud
3S.	Crown Wheel Stud
4S.	70 T Bossed Carrier Stud
5S.	50 T Broad " "
6s.	80 T Bossed Carrier and Clutch Weight Stud
7s.	Long $\frac{1}{2}$ in. Pin for Calender Covers
8s.	Short $\frac{1}{2}$ in. " " "
98.	Short ‡in. Pin for End Clearers
IOS.	Long $\frac{1}{4}$ in. " Middle "
HIS.	Stud for Measuring Motion Plate
I 2S.	Knob for Large Guard
13S.	
14S.	Measuring Motion Screw
15S.	Small Stud for Setting on Rod



Additions to

DRAWING FRAMES,

1907.

$H)^{A}$.	One Gearing End Stand, without Preventors				
IBA.	,, with ,,				
SIA.	One Large Stand with Front Loose Slide, Special				
	Preventors				
A2A.	One Large Stand with Front Loose Slide Preventors				
В2А.	" " with Loose Front Slides, without				
	Preventors				
S2A.	One Large Stand with Loose Front Slides, without				
	Preventors				
A 3 ^A ·	One Large Stand with Front Loose Slide Preventors				
вза.	" " " with Loose Front Slides, without				
	Preventors				
$A4^{A}$.	One Large Stand with Front Loose Slide Preventors				
В4А.	" " with Loose Front Slides, without				
	Preventors				
бA.	One Indicator				
7A.	One Small Stand with Loose Front Slide				
8A.	One Pedestal Bracket				
IOA.	" Ring Bracket				
IIA.	" Bush				
14A.	One Block for Traverse Rail				
I 5A.	One Curl for Top Clearer				
16F.	One Front Roller Slide				
16s.	One Stud for Traverse Motion Plate				
18s.	Stud for Traverse Motion Plate				
18B.	One Large Stand Cap for 3 Callenders for No. 2 Stand				
198.	One Stud for Indicator				

19B.	One Large Stand Cap for 3 Callenders for No. 3 Stand
2013.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
22A.	One Small Stand Cap
23E.	One Small Bracket for Magnet Bore for Electric Stop
	Motion
24E.	One Bearer Bracket for Back Plate for Electric Stop
·	Motion
35A.	Clutch Lever for 2 Callender Rollers
39A.	One Stop Rod Bracket for Guard Locking Motion
40A.	One Spring Bracket for Clutch Lever
44A.	One Bracket for Guard Locking Motion
57A.	One Front Tumble Lever Bracket Grid
бол.	One Iron Calender Cover Clearer
6ов.	One Calender Cover Clearer (Wood)
1144.	One Spring for Clutch Lever
1251.	One Middle Curl for Revolving Clearer
125B.	One Gearing End Curl for Revolving Clearer
129A.	One Guard for Ermen's Clearer
129B.	One Guard Bracket for Ermen's Clearer
191.	One Front Tumbler Tail for 3in. Callenders
249.	One Clearer End Gearing End
249A.	One Narrow Clearer End Gearing End
250.	One Clearer End Off End
250A.	Narrow Clearer End Off End
251.	One Bracket for Steel Back Plate
252.	One Callender Cover Hinge Bracket
254.	One Cap for Revolving Curl
255.	One Half Moon Guard
256.	One 3/4 Stop Collar
257.	Floor Bracket for Driving Shaft Tube
258.	One Slide Bracket for Driving Shaft Tube
258A.	11 19 19
259.	One Off End " " "
260.	One Back Roller Wheel Guard
261.	One Weight Wire Washer, small hole
263.	" " " large "
264.	One Clutch Box Collar, 13in. long
<i>2</i> 65.	One Loose Pulley Bush

265. One Gearing End Bracket for Coiler Shaft

267. One Double Leave Bracket for Lever weighted

268. One Single Leave Bracket for Lever weighted

One Weight Lever, 16in. gauge, for Lever weighted

270. One Large Saddle for Lever weighted

271. One Short Saddle for Lever weighted

272. One Wing Nut for Lever weighted

273. One 46 T Carrier Wheel Bush

274. One $\frac{5}{8}$ Brass Step

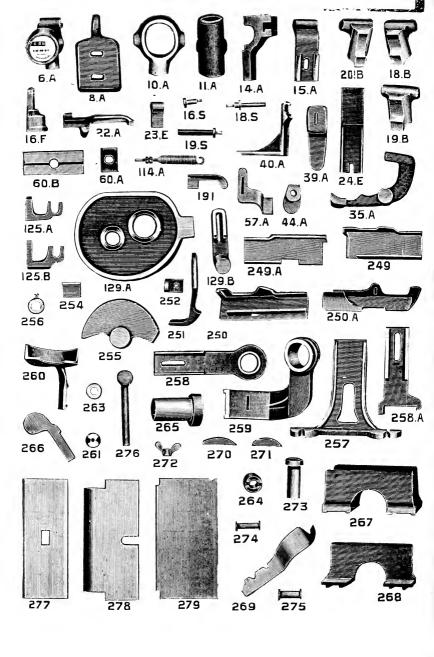
275. One $\frac{3}{4}$

276. One Finger for Rod Bracket for Guard Locking Motion

277. One Steel Callender Cover, 16in. gauge

278. One Callender Cover Sheet Iron

279. One Steel Top Clearer, 16in. gauge







DATE DUE

-	261-2500	Printed in USA

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Details for drawing frames

